
STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION

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On Its Own Motion)	
-vs-)	
COMMONWEALTH EDISON COMPANY)	No. 99-0282
)	
Proceeding pursuant to Section 16-111(g) of the)	
Public Utilities Act concerning proposed sale of)	
fossil fuel fired generating plants.)	

TESTIMONY OF WILLIAM J. BAUMOL
PROFESSOR OF ECONOMICS
DIRECTOR OF THE C.V. STARR CENTER FOR APPLIED ECONOMICS
NEW YORK UNIVERSITY

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Q. What is your name and address?

A. My name is William J. Baumol. I reside at 45 Ocean Avenue, Monmouth Beach, New Jersey, 07750, USA

Q. What is your occupation and title?

A. I am professor of economics and Director of the C.V. Starr Center for Applied Economics at New York University.

1 Q. What are your academic and professional credentials?

2 A. I received my bachelor's degree in economics from the College of the City of New York
3 in 1942 and my Ph.D. from the University of London in 1949. After my military service in
4 Europe during World War II, I taught at the London School of Economics from 1947
5 through 1949. I then served as a member of the faculty of Princeton University for 42
6 years, where I recently became professor emeritus, and where I still hold an appointment
7 as Senior Research Economist. I have written approximately 30 professional books and
8 500 articles. I have served as president of four leading professional organizations of
9 economists including the American Economic Association, the world's largest organization
10 of economists from business, government, colleges and universities. I hold nine honorary
11 degrees and other honors in the United States and abroad, and am a member of three of
12 the nation's leading honorific societies, including the National Academy of Science.

13

14 I have taught university courses on the economics of antitrust, regulation and industrial
15 organization, and have been invited to lecture on these subjects in forums throughout the
16 world, most recently in Australia, France, Israel, Italy, England and Venezuela. I have
17 also written a number of articles and books related to these subjects and have testified
18 extensively on antitrust and regulatory issues before courts and regulatory agencies in the
19 United States and abroad. Over my almost fifty years of activity as an economist, I have

1 analyzed a number of issues related to competition and antitrust matters in a wide variety
2 of industries. A more detailed summary of my qualifications is provided in Exhibit 4.1.

3
4 I have had extensive experience in analysis of the effects of various types of changes in
5 arrangements upon the competitiveness of a market. In particular, I have testified before
6 regulatory agencies, courts and congressional committees on the consequences for
7 competitiveness of either divestiture of facilities or addition to facilities through
8 acquisition or merger. I have written three books on issues related to matters affecting
9 competitiveness of the market. These are *Contestable Markets and the Theory of*
10 *Industry Structure*, (coauthors J.C. Panzar and R.D. Willig, Harcourt Brace, revised
11 edition 1988), *Toward Competition in Local Telephony* (coauthor J.G. Sidak, MIT Press
12 1994) and *Transmission Pricing and Stranded Costs in the Electric Power Industry*
13 (coauthor J.G. Sidak, AEI Press 1995). I have also published articles on related subjects
14 in *The Yale Law Journal*, *The Journal of Law and Economics* and *the Yale Journal of*
15 *Regulation*. The most recent of these articles appeared this spring. In terms of the effects
16 of divestiture I first testified on the subject beginning in the 1970s in connection with
17 AT&T's divestiture of its local service companies. I have also testified in a number of
18 cases involving merger and acquisitions. In addition, I have prepared a number of pieces
19 of testimony on the advent of competition in generation activity in the electric power
20 industry and the issues for competitiveness that this development engenders.

1 Q. Are you familiar with Notice of Property Sale ("Notice") submitted by Commonwealth
2 Edison Company ("ComEd") in these proceedings?

3 A. I have reviewed that document.
4

5 Q. Are you familiar with the transaction that is the subject of that Notice?

6 A. Yes, I am familiar with that transaction.
7

8 Q. Have you analyzed that transaction?

9 A. Yes, I have. At the request of ComEd I have analyzed the transaction to determine
10 whether it will help to stimulate competition in the Illinois energy marketplace and create
11 "a vibrant, open electricity market."
12

13 Q. Did you reach a conclusion on those issues?

14 A. Yes. The proposed sale of ComEd's fossil-fuel powered generating plants is a clear
15 opportunity for enhancement of competition in generation in the State of Illinois. There is
16 every reason to expect that the transaction will fulfil its promise to enhance competition.
17 The very act of divestiture of the plants will contribute to achievement of that goal, and
18 ComEd will have a continuing incentive to move matters in that direction. It seems clear
19 that the general welfare calls for the transaction to be carried out without delay and
20 without impediment.

1 Q. What is the basis for your conclusion?

2 A. My conclusion is based on my long study of similar subjects in this and other regulatory
3 industries and upon an examination of the pertinent facts of this transaction. The report
4 that I have prepared on the matter summarizes the basis for my conclusion. That report is
5 provided in Exhibit 4.2.

6
7 Q. Does this conclude your testimony?

8 A. Yes.

WILLIAM J. BAUMOL**Curriculum Vitae****January 1999**

Born February 26, 1922, New York, NY
 Married, two children
 BSS College of the City of New York, 1942
 Ph.D University of London, 1949

1942-43 and 1946: Junior Economist, U.S. Dept. of Agriculture
 1947-49: Assist. Lecturer, London School of Economics
 1949-92: Professor of Economics, Princeton University
 1992-current: Senior Research Economist and Professor of Economics Emeritus,
 Princeton University
 1971-current: Professor of Economics and Director, C.V. Starr Center for Applied Economics,
 New York University

AWARDS & HONORS:

1953 Fellow, Econometric Society
 1965 Honorary LL.D, Rider College (Trustee, 1960-70)
 1968 Joseph Douglas Green 1895 Professorship of Economics, Princeton University
 1970 Honorary Fellow, London School of Economics
 1971 Elected Member, American Academy of Arts and Sciences
 1971 Honorary Doctorate, Stockholm School of Economics
 1973 Honorary Doctor of Humane Letters, Knox College
 1973 Honorary Doctorate, University of Basel
 1975 John R. Commons Award, Omicron Delta Epsilon
 1975 Townsend Harris Medal, Alumni Assoc. of the City College of New York
 1977 Elected Member, American Philosophical Society
 1982 Distinguished Fellow, American Economic Association
 1984 Distinguished Member, Economic Association of Puerto Rico
 1986 Winner, Assoc. of American Publishers Award for Best Book in Business,
 Management and Economics, *Superfairness: Applications and Theory*
 1987 Recipient, Frank E. Seidman Distinguished Award in Political Economy
 1987 Elected Member, National Academy of Sciences
 1989 Winner, Assoc. of Am. Publishers Annual Awards for Excellence in Publishing,
 Honorable Mention in Social Sciences, *Productivity and American Leadership:
 The Long View*
 1992 Recipient, First Senior Scholar in the Arts and Sciences Award, New York University
 1993 Winner, Assoc. of Environmental and Resource Economists Award for Publication of
 Enduring Quality, *The Theory of Environmental Policy*
 1996 Honorary Degree, University of Limburg, Maastricht, Holland
 1996 Honorary Professorship, University of Belgrano, Buenos Aires, Argentina
 1997 Henry H. Villard Research Award, National Council on Economic Education and
 National Association of Economic Educators
 1997 Docteur Honoris Causa, Universite des Sciences et Technologies de Lille,

Lille, France

PROFESSIONAL ACTIVITIES:

Member, Advisory Board, Insurance Information Institute Press
Principal Investigator, Students at Risk Committee, Institute for Education & Social Policy
Member, Advisory Committee, World Resources Institute (founding member)
Member, Board of Trustees, Joint Council on Economic Education
Member, Advisory Committee, Center for Entrepreneurial Studies, Graduate School of Business Administration, New York University
Member, Board of Directors, Theater Development Fund
Member, National Science Foundation review panel for Science and Technology Research Centers
Member, Advisory Board, Fishman-Davidson Center for the Study of the Service Sector, Wharton School, University of Pennsylvania
Correspondent, Committee on Human Rights, and member, Committee on the National Institute for the Environment, National Academy of Sciences
Past President, American Economic Association (1981), Association of Environmental and Resource Economists (1979), Eastern Economic Association (1978-79), Atlantic Economic Society (1985)
Past Chairman and Member, Economic Policy Council, State of New Jersey (1967-75)
Past Vice President (1968-70) and Chairman, Committee on Economic Status of the Profession (1962-70), American Association of University Professors
At various times on editorial and/or advisory boards for: *American Economic Review*; *Kyklos*; *Journal of Economic Literature*; *Journal of Cultural Economics*; *Journal of Economic Perspectives*; *Management Science*; *Economic Notes (Italy)*; *Journal of Economic Education*; *Impresa e Concorrenza (Italy)*; *THESIS: Theory and History of Economic and Social Institutions and Structures (USSR)*; *Feminist Economics*; *Japan and the World Economy*; *Supreme Court Economic Review*, *Economia: Revista Quadrimestral (Portugal)*.

Frequent consultant to government and industry, in U.S. and many other countries.

BOOKS PUBLISHED:

Economic Dynamics (with R. Turvey), 1951, 1959, 1970
Welfare Economics and the Theory of the State, 1952, 1965.
Economic Processes and Policies (with L.V. Chandler), 1954
Business Behavior, Value and Growth, 1959, 1966
What Price Economic Growth? (with Klaus Knorr), 1961
Economic Theory and Operations Analysis, 1961, 1965, 1972, 1976
The Stock Market and Economic Efficiency, 1965
Performing Arts: The Economic Dilemma (with W.G. Bowen), 1966
Precursors in Mathematical Economics: An Anthology (with S.M. Goldfeld), 1968
Portfolio Theory: The Selection of Asset Combinations, 1970
Economics of Academic Libraries (with M. Marcus), 1973

The Theory of Environmental Policy (with W.E. Oates), 1975, 1988
Selected Economic Writings of William J. Baumol, E.E. Bailey, ed., 1976
Economics, Environmental Policy, and the Quality of Life (with W.E. Oates and S.A. Batey Blackman), 1979
Economics: Principles and Policy (with A.S. Blinder), 1979, 1982, 1985, 1987, 1991, 1994, 1997
Public and Private Enterprise in a Mixed Economy (ed.), 1980.
Contestable Markets and the Theory of Industry Structure (with R.D. Willig and J.C. Panzar), 1982, 1987
Inflation and the Performing Arts (ed. with H. Baumol), 1984
Productivity Growth and U.S. Competitiveness (ed. with K. McLennan), 1985
Superfairness: Applications and Theory, 1986
Microtheory: Applications and Origins, 1986
The Information Economy and the Implications of Unbalanced Growth (with L. Osberg and E.N. Wolff), 1989
Productivity and American Leadership: The Long View (with S.A. Batey Blackman and E.N. Wolff), 1989
The Economics of Mutual Fund Markets: Competition vs. Regulation (with S.M. Goldfeld, J.A. Gordon and M.F. Koehn), 1990
Perfect Markets and Easy Virtue: Business Ethics and the Invisible Hand (with S.A. Batey Blackman), 1991
Entrepreneurship, Management and the Structure of Payoffs, 1993
Toward Competition in Local Telephony (with Gregory Sidak), 1994
Convergence of Productivity: Cross-National Studies and Historical Evidence (ed. with R.R. Nelson and E.N. Wolff), 1994
Transmission Pricing and Stranded Costs in the Electric Power Industry (with J. Gregory Sidak), 1995
Assessing Educational Practices: The Contribution of Economics (ed. with W.E. Becker), 1995

Plus approximately 500 articles published in professional journals.

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IMPLICATIONS FOR COMPETITION

OF THE COMMONWEALTH EDISON COMPANY FOSSIL PLANT SALE

By William J. Baumol

The Issue

As technology and the regulatory environment in the electric power industry have evolved it has become clear that competition in the generation of power is both feasible and desirable. In contrast, scale economies and other considerations generally rule out a competitive regime in the transmission and distribution of the generated power. The result has been a move toward encouragement of entry and competition in the generation sector of the industry, without fundamental modification of the single-supplier arrangement prevalent in the transmission and distribution activities. This means that the public utility firms that in many cases were for a long time sole suppliers of all the components of processes necessary to provide power to its users are no longer the sole generators of that power. Entrants have appeared, making use of new capacity, capacity they had previously acquired for other purposes, or capacity they have acquired, by mutual agreement, from the utilities. The issue in question here stems from such a transfer of capacity, in this case entailing the sale by Commonwealth Edison Company ("ComEd" or the "Utility") of its fossil-fuel-fired generating plants and some additional facilities to Edison Mission Energy of Rosemead, California.

1 The subject that is raised by this transaction is whether it will contribute to the
2 competitiveness in the generation sector of the industry in the geographic area that is affected. All
3 things being equal, the addition of another seller of generation should only increase competition in
4 that area. Thus, it is appropriate to inquire into whether the transaction will change the objective
5 economic incentives of the seller, which will continue to retain and use some 50 percent of its
6 previous generating capacity in the form of its nuclear plants and long-term contracted capacity to
7 conduct future activities in a manner compatible with preservation and even strengthening of the
8 competitive forces in the market? The Utility, in advocating the transaction, predictably, asserts
9 that the sale will help to stimulate competition in the Illinois energy marketplace and to create
10 "...a vibrant, open electricity market." Obviously, the issue is important for the public welfare in
11 the region, and merits dispassionate and careful analysis. I have been asked by ComEd to carry
12 out such an analysis.

13 14 **Summary of Conclusions**

15 On the basis of my long study of similar subjects in this and other regulatory industries I
16 have examined the issue and the pertinent facts. This has led me to several basic conclusions.

- 17 1. A firm in the circumstances of ComEd, i.e., that provides transmission and
18 distribution services at tariffed, cost-based rates approved by State and Federal
19 regulators has every incentive to do what it can to stimulate and encourage
20 effective competition in the generation of electricity. This is so because, as will be

1 explained below, in such a situation the firm's critical activities would be
2 transmission and distribution, with generation constituting an ancillary input of the
3 final product, delivered electric power. The choice for ComEd between generating
4 electricity itself and acquiring it from others becomes, in effect, a make-or-buy
5 decision. In such a case the firm clearly benefits most by obtaining that ancillary
6 input from the cheapest available source. A competitive generation market will
7 ensure that this input is supplied to it at the lowest possible cost.

- 8 2. If the Utility transmits energy that it has generated itself rather than energy
9 generated by competitors, it will, in effect, be purchasing that power from itself.
10 But that will be the most profitable choice only if it can generate electricity at a
11 cost lower than the price at which it can be acquired from others. In a regime
12 where transmission and distribution prices are set on a rational basis, this
13 arrangement serves the general interest. This is so, because it means that the
14 Utility will generate power only to the extent that it can do so more cheaply than
15 others can, and that its interests will best be served if the remainder of the power
16 supplied by the industry comes from a competitive market.
- 17 3. Two facts provide powerful evidence that ComEd believes competition in
18 generation is, indeed, in its interest. First, the terms of the sale, agreed to
19 voluntarily by both parties, commit ComEd to purchase capacity from the stations
20 it is selling, for a number of years. This commitment provides an assured source of

1 revenue to the entrant during its initial years of operation in the geographic area.

2 It also demonstrates that ComEd recognizes the profitability of dealing with
3 electricity generated by a competitor rather than only the power that it itself has
4 generated. Second, there is the fact that after the sale of its generation facilities
5 the Utility will still continue to have the obligation to meet certain demand that is
6 not served by other generators. Directly relevant is the fact that in the facilities-
7 sale transaction here at issue the Utility's agreement with the purchaser is that the
8 former will, if needed, be able to purchase power from all of those facilities, but a
9 portion of that capacity (which increases substantially over the five-year term of
10 the purchase agreement) will be available to the Utility, I am informed, *only at a*
11 *price substantially above the expected market level*. This, of course, ensures that
12 such purchases are very likely to be very unprofitable for the Utility and that its
13 interests will be served by the existence and profitability of competing generators
14 who will be in a position to serve the demand of the Utility's current customers
15 and will find it profitable to do so.

- 16 4. This leads to three final conclusions. The first conclusion is that if transmission
17 fees are set as the public interest requires, i.e. at a level that will enable the Utility
18 to recover its prudent and reasonable costs, including its opportunity costs, self
19 interest will, dependably, drive the Utility to do all it can to foster and preserve
20 competition in electricity generation. Second, nothing about the transaction which

1 is the subject of this proceeding will adversely affect the Utility's incentives to
2 promote competition. Finally, the proposed sale will undoubtedly be a major step
3 toward realization of an effectively competitive market.
4

5 **Competition and the Interests of ComEd**

6 It is almost self evident that the sale of the ComEd fossil-fueled generating plants will
7 serve to enhance competition. The transaction itself is procompetitive on its face. For, once
8 carried out, a single generator will be replaced by two generating firms. Moreover, entry of the
9 second firm will have been carried out without the delay and the uncertainties that inevitably
10 accompany new construction. The entrant will have avoided many regulatory preliminaries such
11 as the need to obtain permission for the construction and siting of new facilities that can also
12 involve substantial delays and outlays of effort. The plants in question are conveniently located in
13 relation to the required transmission facilities. Consequently, the transmission and distribution
14 costs that the entrant must bear will be correspondingly low. This, of course, is a key requirement
15 for the effectiveness of the competitive pressures that an entrant contributes to the market. Since
16 the entrant is committed by the agreement to undertake the construction of additional generating
17 capacity, and that entrant itself is an experienced, recognized and successful supplier of.
18 generation, it will undoubtedly contribute materially to the competitiveness of the market. In
19 short, the transaction will enhance the number of suppliers in the market, it will keep down the

1 costs of entry of the purchasers of the facilities and it will provide an entrant that is in a position
2 to contribute effectively to the powers of competition in the market.

3 There is only one misunderstanding that can plausibly arise about this compelling
4 conclusion. Since ComEd will continue to generate electricity of its own and have contractual
5 commitments to other long-term capacity after the transaction is completed some observers may
6 be impelled to question whether the asset sale will change its attitude in dealing with new
7 competitors. This relates not only to the purchaser of the fossil-fuel facilities but also to other
8 firms whose entry may be encouraged by success of the purchaser of the plants. Having sold its
9 fossil-fueled generators, should ComEd be any less willing to go along with the growth of rivals
10 of its own generator facilities?

11 The answer, supported by economic analysis, is that, if transmission rates are set
12 consistent with the public interest (i.e., if they provide a reasonable opportunity for the Utility to
13 recover its costs, including opportunity costs), the maximum profitability of ComEd's continuing
14 transmission and distribution activities requires the market for generation to be effectively
15 competitive. Recovery of opportunity costs here means that the utility is permitted to recover the
16 same contribution to stranded costs whether it transmits electricity it generated itself or electricity
17 generated by others. It is my understanding that Federal and State transmission and distribution
18 rates are set on the basis of cost and both provide for the recovery of opportunity cost: i.e.,
19 through stranded cost charges at the Federal level and through the transition charge and other
20 mechanisms at the State level. For purposes of my analysis, I assume that transmission and

1 distribution rates will be properly set in that they will actually allow a reasonable opportunity for
2 recovery of all costs, including opportunity costs. The transaction will not change the rates that
3 ComEd is entitled to receive for transmission and distribution and, therefore, will have no adverse
4 effect on the incentives that ComEd has to support enhanced competition in generation. Instead,
5 ComEd's sale will only promote competition among electricity generators.

6
7 **When is it Profitable for the Final Power Distributor to "Buy" Generated Electricity**
8 **Rather than Producing it Itself?**

9 To understand why competitiveness of generation serves the interests of transmitters it
10 must be recognized that the choice between power generated by competitors and power
11 generated by the Utility itself is, in effect, a make-or-buy decision. An analogy derived from
12 reality will make the point clear. Some years ago a number of electric utility firms entered into
13 contracts to purchase electricity generated in Canada and elsewhere, using the electricity obtained
14 in this way to supplement the power they generated themselves to meet demand. This, clearly,
15 was a make-or-buy decision for the utilities, determining whether they would produce the power
16 themselves or buy it from others, or do some of both. The lower the price of the delivered
17 electricity the better off the utilities would have been as a result of these transactions. Since
18 competitiveness of generation activity forces prices downward toward costs, such
19 competitiveness obviously served the interests of the utilities. Moreover, if the market price of
20 purchased power had been well below the cost a utility would have incurred in producing it itself,

1 it would have benefited the utilities to cease generation altogether and purchase all the power they
2 needed from the competitive market in this scenario.

3 Two conclusions follow directly from this analogy. (1) To the firm that transmits and
4 delivers electricity, the choice between its own generation and generation by competitors is
5 strictly analogous to a make-or-buy decision. (2) In such a make-or-buy decision it is most
6 profitable for the utility (a) to obtain the power from the cheapest source, whether its own or that
7 of a competitor; (b) to reduce the costs of any such source of power, wherever possible; and (c)
8 to encourage competition among suppliers of generated power as an effective way to reduce its
9 costs.

10 The circumstances of the transaction here in question, however, differ from the situation
11 just discussed in that electricity generated by competitors may be sold to final customers directly
12 by those competitors themselves, not by the Utility. However, as will be shown next, this fact
13 does not change the conclusions of the preceding paragraph in any substantive manner.
14 Competition continues to serve the interests of the Utility.

15

16 **Sale to Final Power Consumers by Competitors**

17 In the previous example all transactions with final consumers were conducted by the
18 utility. It sold to consumers power obtained from its own plant or from other suppliers under
19 contract. The revenues the utility obtained from final consumers yielded a return on investment
20 after subtraction of the utility's own costs and its payments to the generators from which it

1 purchased electricity. In such an arrangement it is clear that the lower the price it pays to
2 suppliers under contract, the better off the utility will be.

3 The situation at issue in the ComEd transaction *may seem on its surface* very different
4 from that in the preceding analogy, but that is largely a matter of appearance. It is true that here
5 the competing generators and not the utility will deal with final consumers in the sale of power
6 generated by those competitors. But it remains true that of the total revenue from total product
7 sales, more will accrue to the transmitter the lower the amount competition permits the generators
8 to take for themselves. This will, however, not take the obvious form of a larger share of the
9 revenue to the utility. Rather, its enhanced earnings will result from the larger volume of
10 purchases induced by a low price of generated power.

11 Specifically, if competition forces down the earnings of generation, the price of power to
12 the consumer will also be low. That will stimulate sales of power. But all the power sold will
13 have to be transmitted and distributed at prices authorized by regulatory authority. Those prices
14 can be expected to be compensatory, since otherwise they would entail a taking. That is, they will
15 yield a profit to the Utility on every unit of power sold and delivered to final consumers. Since
16 the sale of every unit will yield a net return to the Utility, the more power that is sold under the
17 distribution and transmission pricing formula approved by the regulator, the better off the Utility
18 will be. In sum, we obtain the same conclusion as before. Viable competition in generation will
19 serve the interests of the Utility and one can therefore expect the Utility to do what it can to
20 promote it.

1 It should be noted here that this is not a novel doctrine invented just to lend support to
2 those who seek approval of the plant-sale transaction. On the contrary, the conclusion rests on a
3 long recognized result contributed by economic analysis of the case of vertically-related firms.
4 This is the case where one firm obtains components of the final product from another. In the
5 situation here at issue, the final product is, of course, delivered power, and its three prime
6 components are generated electricity, transmission and distribution. Without any one of these the
7 final-product purchaser could not obtain the power desired. What economic analysis indicates
8 about this case is that the interest of the firm supplying one of the components is damaged by
9 weakening of competition in supply of the other components which can be expected to raise the
10 price of those other components.

11
12 **Proof of the Pudding: ComEd's Voluntary Commitment to Purchase the Entrant's**

13 **Power**

14 As a matter of fact, ComEd has already demonstrated by its actions its commitment to
15 effective competition in the generation of power. It is not only prepared to transmit and distribute
16 electricity generated by the competitor. Under the terms of the sale of its plants it has also
17 committed itself, for a number of years, to buy capacity from the generating stations it has sold.
18 This is, of course, a direct decision to buy and not to make the power that is generated by this
19 capacity. In other words, the Utility has undertaken to transmit and distribute energy it will
20 acquire from its new competitor, to replace some of the energy it has previously generated itself.

1 Clearly, it is not doing this as an act of charity, but because it considers the arrangement to be
2 profitable. Moreover, if it will be profitable in the period following the transfer of the plants it
3 will obviously become even more profitable as other competitors embark on generation activity,
4 helping to drive down prices and costs.

5 It is also significant here that in addition to sale of its base-load fossil-fired generating sites
6 ComEd is selling peaking units located at nine sites throughout its service territory. This is
7 significant because the peaking capacity is necessary to meet ComEd's continuing obligation to
8 serve all otherwise unmet customer demand for power, even when that demand is at its highest.
9 The fact that these facilities will no longer be the property of ComEd means, of course, that the
10 Utility is expecting a significant share of such demand to be served by others. But that is
11 something those others can do only if they are financially viable and find it profitable to continue
12 in operation. That is, by selling its peaking units the Utility has clearly obligated itself to promote
13 the viability of competition. As one noted economist has put an analogous matter, the Utility has,
14 in effect, provided a hostage to ensure its support of a competitive market in generated electricity,
15 a market to which it will have to turn to meet its continuing obligation to serve all peak demands.

16 ComEd has also taken another significant step that works in the same direction. It has
17 acquired the option to obtain additional power from its divested facilities over and above the
18 amounts it has committed itself to take. But what is most significant here is that it has obligated
19 itself to pay for the power it obtains under this option a price well above what ComEd believes
20 will be the market level of the capacity and energy charges. In short, it will be obligated to pay

1 more than the market price for such power. This clearly constitutes an invitation for entry by yet
2 other generators whose power it will be more profitable for ComEd to utilize in periods when it is
3 needed, in preference to the expensive product of the divested plants. The resultant opportunity
4 for other entrants is precisely the sort of incentive that will help to induce them to come into the
5 market, thereby contributing to its competitiveness.

6 The high price of power purchasable under the option just described will also serve as an
7 incentive for ComEd to expand its own generating capacity if others do not come into the market
8 and provide a more economical alternative. If such expansion does occur it will clearly add to the
9 total amount of product in the market that is seeking customers. That is just another way of
10 saying that this, too, will serve to enhance the force of competition in generation activity.

11 We see, then, that the desirability of competition in generation to ComEd is not merely a
12 bit of theoretical argument. ComEd has, in effect, already voted with its feet. The reality is that it
13 has already voluntarily undertaken three commitments that constrain it to act in a way that
14 encourages competition in the future. It has committed itself to purchase power from Edison
15 Mission Energy, the firm that is about to become a competitor of ComEd in generation. It has
16 given up its peaking units, thereby virtually ensuring that it will have to depend upon competing
17 generators during periods of peak demand. And it has committed itself to pay what it expects to
18 be a price well above the market level for additional power it has the option to obtain from Edison
19 Mission Energy, thereby enhancing the prospect of ComEd demand for the power generated by
20 still other entrants. These are steps that ComEd could not be expected to take voluntarily if it

1 considered competition in generation to be a threat to its welfare rather than a source of benefit to
2 itself, along with those benefits competition will provide to consumers.

3
4 **What are the Alternatives to the Transaction?**

5 The implications for competitiveness of generation of the planned sale of the fossil plants
6 are, perhaps, brought out even more starkly by considering the alternatives. Suppose that for
7 some reason, such as regulatory intervention, the proposed sale were to be aborted. What can be
8 expected to follow? There are two obvious possibilities: delay or total preclusion of the sale.

9 If the sale were never to take place the damage to competition in generation is all too
10 obvious. The market for generated electricity will be denied an additional and substantial
11 generator. ComEd would continue to possess the bulk of the generating capacity in the
12 geographic area, and would be driven to seek business for its large capacity. That might lead it to
13 change from a promoter of competition in generation to an incumbent whose interests require it to
14 strive to keep for itself as large a share of the market as it could retain.

15 The alternative, if the currently contemplated sale were to be aborted, is delay. In
16 principle, the steps underlying the sale process could be repeated and ComEd could ultimately sell
17 the plants to another purchaser or purchasers. But such a scenario is not without cost to the
18 public. First of all, delay is costly in itself. If the lag entailed in reopening the process were to
19 postpone the added competition for a year, it would mean a year of deprivation of the benefits of
20 competition to the general public. The savings foregone by consumers during that year would

1 never be recouped. Moreover, as every specialist in financial calculations knows, a dollar saved
2 one year in the future is worth materially less than a dollar saved today. In terms of the pertinent
3 jargon, the discounted present value of a dollar saved in the future is decidedly lower than a dollar
4 today. Thus, delay would materially reduce the public's prospective savings.

5 But that is not all of the damage to the public interest that would be caused by delay. The
6 clearest attribute of *future* arrangements is their uncertainty -- the fact that no current observer
7 can be sure of the forms and magnitudes which will materialize when they actually do occur. And
8 uncertainty, too, is costly. That is precisely why firms and individuals pay for expensive insurance
9 policies. The price of such a policy is an indicator of what it is worth to policyholders to rid
10 themselves of uncertainty. And if the current sale were for some reason to be aborted or even to
11 be delayed it must be recognized that substantial uncertainty, not only about the ultimate form of
12 the transaction, but of its actual execution, will be the unavoidable consequence.

13 It is widely recognized that in regulated industries speed is not always to be expected in
14 the approval and implementation acts that constitute major changes in current arrangements. That
15 is an understandable feature inherent in the regulatory process. But that is no excuse for
16 unnecessary delay that is sure to be costly to the public.

18 **Conclusion: the Benefits of Competition**

19 It is hardly necessary to devote substantial space to a discussion of the benefits of
20 competition. These are widely understood and generally recognized. Competition ensures that

1 consumers will pay the lowest prices compatible with the financial viability of the suppliers of
2 their purchases. It enforces maximal efficiency in the production process, condemning any firm
3 that is incompetent or wasteful to lose its customers to rivals. It brings to customers service that
4 is tailored to the purchaser's desires. It results in output volumes that best meet the needs and
5 contribute to the efficiency of the economy. And it forces the industry constantly to pursue
6 technical improvement – more efficient production process and better ways to serve consumers.
7 That this is so is known to all those who have analyzed how markets work and what
8 consequences the ways in which they work have for the general welfare.

9 It is also generally recognized that competition, despite all the benefits it offers, is
10 sometime unattainable. Notably this is so when the state of technology entails substantial
11 economies of scale and scope, so that mere size contributes substantially to reduction of the costs
12 of a supplier. In such circumstances, the largest supplier has an automatic cost advantage over
13 smaller rivals, and competition cannot generally materialize or survive. Where such economies of
14 scale and scope are present the desirability of competition itself becomes questionable. This is so
15 because the provision of product by a number of firms means that each must operate on a scale
16 smaller than would be enough to meet the market's demands by itself, and unnecessary cost must
17 be the result.

18 Fortunately, developments in power generation have made competition in that arena
19 feasible and emphatically desirable. We now have the opportunity to bring its benefits to the
20 consuming public, and to do so in short order. As I have explained here, the proposed sale of the

1 fossil-fuel powered plants is a clear opportunity for enhancement of the power of competition in
2 generation in the State of Illinois. There is every reason to expect that the transaction will fulfill
3 its promise to enhance competition. The very act of divestiture of the plants will contribute to
4 achievement of that goal, and ComEd will have a continuing incentive to move matters in that
5 direction. It seems clear that the general welfare calls for the transaction to be carried out without
6 delay and without impediment.